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June 2009

Future Generation Computer Systems, Volume 25 Issue 6**Publisher:** Elsevier Science Publishers B. V.**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Grid resources are non-dedicated, and thus grid users are forced to compete with resource owners for idle CPU cycles. As a result, the turnaround times of both the grid jobs and the owners' jobs are invariably delayed. To resolve this problem, the current ...

Keywords: CPU cycle stealing, Distributed shared memory, Non-dedicated resources, Resource reconfiguration Teamster-G, Time-shared grid resources

2 [The PRIMA System for Privilege Management, Authorization and Enforcement in Grid Environments](#)[M. Lorch, D. B. Adams, D. Kafura, M. S. R. Keneni, A. Pathi, S. Shah](#)

November 2003

GRID '03: Proceedings of the 4th International Workshop on Grid Computing**Publisher:** IEEE Computer SocietyFull text available: [Pdf](#) (149.42 KB)**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 38, Downloads (Overall): 68, Citation Count: 18

Many grid usage scenarios depend on small, dynamic working groups for which the ability to establish transient collaboration with little or no intervention from resource administrators is a key requirement. The system developed, PRIMA, focuses on the issues ...

3 [Characterization of Bandwidth-Aware Meta-Schedulers for Co-Allocating Jobs Across Multiple Clusters](#)[William M. Jones, Walter B. Ligon III, Louis W. Pang, Dan Stanzione](#)

November 2005

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In this paper, we present a bandwidth-centric job communication model that captures the interaction and impact of simultaneously co-allocating jobs across multiple clusters. We compare our dynamic model with previous research that utilizes a fixed execution ...

Keywords: bandwidth-aware, job co-allocation, multi-site scheduling, multiple clusters, network contention, parallel job scheduling, simulation

4 [Revisiting IP multicast](#) [Sylvia Ratnasamy, Andrey Ermolinskiy, Scott Shenker](#)

August 2006

SIGCOMM '06: Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (461.14 KB)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 119, Downloads (Overall): 925, Citation Count:

This paper revisits a much explored topic in networking - the search for a simple yet fully-general multicast design. The many years of research into multicast routing have led to a generally pessimistic view that the complexity of multicast routing-and ...

Keywords: multicas, routing

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